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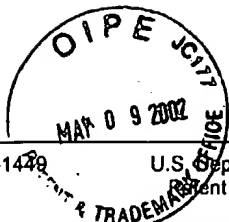
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| <b>Substitute Form PTO-1449</b><br>(Modified)<br><br><b>Information Disclosure Statement</b><br>by Applicant<br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | <b>U.S. Department of Commerce</b><br><b>Patent and Trademark Office</b> | <b>Attorney's Docket No.</b><br>06975-113001 | <b>Application No.</b><br>09/848,232 |
|  | <b>Applicant</b><br>Barry Appelman et al.                                |  |                                      |
|  | <b>Filing Date</b><br>May 4, 2001  | <b>Group Art Unit</b><br>2152 <b>2142</b>    |                                      |

| U.S. Patent Documents |           |               |            |                       |       |          |                            |
|-----------------------|-----------|---------------|------------|-----------------------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Patent Number | Issue Date | Patentee              | Class | Subclass | Filing Date If Appropriate |
|                       | AA        | 6,085,223     | 07/04/2000 | Carino, Jr. et al.    |       |          |                            |
|                       | AB        | 5,951,643     | 09/14/1999 | Shelton et al.        |       |          |                            |
|                       | AC        | 5,951,652     | 09/14/1999 | Ingrassia, Jr. et al. |       |          |                            |
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|                       | AE        | 5,742,905     | 04/21/1998 | Pepe et al.           |       |          |                            |
|                       | AF        | 5,793,365     | 08/11/1998 | Tang et al.           |       |          |                            |
|                       | AG        | 5,721,906     | 02/24/1998 | Siefert               |       |          |                            |
|                       | AH        | 5,991,791     | 11/23/1999 | Siefert               |       |          |                            |
|                       | AI        | 6,026,403     | 02/15/2000 | Siefert               |       |          |                            |
|                       | AJ        | 6,151,584     | 11/21/2000 | Papierniak et al.     |       |          |                            |
|                       | AK        | 6,014,638     | 01/11/2000 | Burge et al.          |       |          |                            |
|                       | AL        | 6,012,051     | 01/04/2000 | Sammon, Jr. et al.    |       |          |                            |
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|                       | AN        | 5,920,692     | 07/06/1999 | Nguyen et al.         |       |          |                            |
|                       | AO        | 5,557,659     | 09/17/1996 | Hyde-Thomson          |       |          |                            |
|                       | AP        | 5,774,670     | 06/30/1998 | Montulli              |       |          |                            |
|                       | AQ        | 5,878,219     | 03/02/1999 | Vance, Jr. et al.     |       |          |                            |
|                       | AR        | 6,026,429     | 02/15/2000 | Jones et al.          |       |          |                            |
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|                       | AW        | 5,557,659     | 09/17/1996 | Hyde-Thomson          |       |          |                            |
|                       | AX        | 5,920,692     | 07/06/1999 | Nguyen et al.         |       |          |                            |

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| Foreign Patent Documents or Published Foreign Patent Applications  |           |                 |                  |   |       |          |             |    |  |  |  |  |  |
|--|-----------|-----------------|------------------|---|-------|----------|-------------|----|--|--|--|--|--|
| Examiner Initial   | Desig. ID | Document Number | Publication Date | Country or Patent Office                                | Class | Subclass | Translation |    |  |  |  |  |  |
|  |           |                 |                  |   |       |          | Yes         | No |  |  |  |  |  |
| <b>Examiner Signature</b><br>  |           |                 |                  | <b>Date Considered</b><br>8/17/2004 <b>All of above</b> |       |          |             |    |  |  |  |  |  |
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| Substitute Form PTO-1449<br>(Modified)<br><br><b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>06975-113001 | Application No.<br>09/848,232 |
|  | Applicant<br><b>Barry Appelman et al.</b>                  |                                       |                               |
|  | Filing Date<br>May 4, 2001                                 | Group Art Unit<br><b>2152 2142</b>    |                               |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |  |    |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|--|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation                                  |    |
|   |           |                 |                  |                          |       |          | Yes  | No |
| ABW   | AY        | WO 97/10558     | 03/20/1997       | WIPO                     | G06F  | 17/30    | RECEIVED<br>MAY 10 2008<br>Technology Center |    |
| ABW   | AZ        | WO 97/46955     | 12/11/1997       | WIPO                     | G06F  | 17/30    |  |    |
| ABW   | AAA       | WO 98/16045     | 04/16/1998       | WIPO                     | H04L  | 29/06    |  |    |
| ABW   | ABB       | WO 99/08434     | 02/18/1999       | WIPO                     | H04M  | 7/00     |  |    |

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|---|-----------|---|
| Examiner Initial  | Desig. ID | Document  |
| <i>ABW</i>  | ACC       | "AOL technology: turning complicated things into engaging services", 1996 Annual Report, 22 pages.  |
| <i>ABW</i>  | ADD       | "YAHOO! Messenger Makes the World a Little Smaller, More Informed", pp. 1-2, June 21, 1999.   |
| <i>ABW</i>  | AEE       | Alan Cohen, "Instant Messaging", 4/13/99, PC Magazine, PC Labs, 2 pages.  |
| <i>ABW</i>  | AFF       | "AOL Instant Messenger Windows Beta Features", 06/24/99, 2 pages, AOL Instant Messenger All New Version 2.0, 2 pages, 06/24/99, What is AOL Instant Messenger, 3 pages, 06/24/99, Quick Tips for Getting Started, 5 pages, 06/24/99, Frequently Asked Questions About AOL Instant Messenger, 6 pages, 06/24/99. |

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| Examiner Signature <i>[Signature]</i>  | Date Considered <i>8/17/2004</i> |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                                  |

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| Substitute Form PTO-1449<br>(Modified)<br>MAR 22 2004<br>PATENT & TRADEMARK OFFICE<br>(37 CFR 1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office                                    |  | Attorney's Docket No.<br>06975-113001 | Application No.<br>09/848,232 |
|  | <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary) |  |                                       |                               |
|  | Applicant<br>Barry Appelman et al.  |  | Filing Date<br>May 4, 2001            | Group Art Unit<br>2152 2142   |

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| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee          | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|-----------------|------------------|-------------------|-------|----------|----------------------------|
| RBH              | AA        | 2002/0065894    | 05/30/2002       | Dalal et al.      |       |          |                            |
| RBH              | AB        | 5,533,110       | 07/02/1996       | Pinard et al.     |       |          |                            |
| RBH              | AC        | 5,608,786       | 03/04/1997       | Gordon            |       |          |                            |
| RBH              | AD        | 5,850,594       | 12/15/1998       | Cannon et al.     |       |          |                            |
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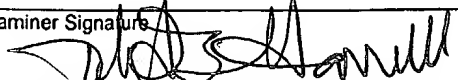
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| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
|                  |           |                 |                  |                          |       |          | Yes         | No |
| RBH              | AO        | EPO862304A2     | 09/02/1998       | EPO                      |       |          |             |    |
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|                  | AQ        |                 |                  |                          |       |          |             |    |

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| RBH              | AS        | "About Internet directory services," Outlook 2000 SR-1 (9.0.0.4527) Help File, on or before August 10, 2001, page 1.                       |

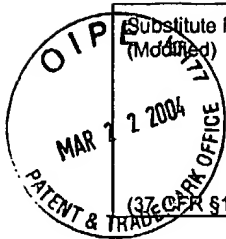
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|---|---|---------------------------------------|---------------------------------------|
| Substitute Form PTO-1449<br>(Modified)<br>MAR 22 2004<br>U.S. DEPARTMENT OF COMMERCE<br>PATENT & TRADEMARK OFFICE<br>(37 CFR 1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office                                    | Attorney's Docket No.<br>06975-113001 | Application No.<br>09/848,232         |
|   | <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary) |                                       | Applicant<br>Barry Appelman et al.    |
|   | Filing Date<br>May 4, 2001  | Group Art Unit<br>2152 2142           | MAR 23 2004<br>Technology Center 2100 |

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial   | Desig. ID | Document   |
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| <i>[Signature]</i> | AW        | Microsoft Corporation, "Using ADSI, LDAP, and Network Management Functions With Active Directory," [online], February 2002 [retrieved on 2003-05-13]. Retrieved from the Internet <a href="http://msdn.microsoft.com/library/enus/dnactdir/html/BuildingADApps.asp?frame=true">http://msdn.microsoft.com/library/enus/dnactdir/html/BuildingADApps.asp?frame=true</a> , pages 1-9.     |
| <i>[Signature]</i> | AX        | Microsoft Corporation, "Comparing Microsoft Active Directory to Novell's NDS," [online], September 1998 [retrieved on 2003-05-13]. Retrieved from the Internet <a href="http://msdn.microsoft.com/library/enus/dnactdir/html/msdn_activedirvsnds.asp?frame=true">http://msdn.microsoft.com/library/enus/dnactdir/html/msdn_activedirvsnds.asp?frame=true</a> , pages 1-17.             |
| <i>[Signature]</i> | AY        | Microsoft Corporation, "Active Directory Services Interface in the Microsoft Exchange 5.5 Environment," [online], November 1997 [retrieved on 2003-05-13]. Retrieved from the Internet <a href="http://msdn.microsoft.com/library/enus/dnactdir/html/msdn_adsiexch.asp?frame=true">http://msdn.microsoft.com/library/enus/dnactdir/html/msdn_adsiexch.asp?frame=true</a> , pages 1-12. |
| <i>[Signature]</i> | AZ        | "Active Directory Service Overview," [online], November 30, 2001 [retrieved on 2003-05-13]. Retrieved from the Internet <a href="http://www.microsoft.com/windows2000/server/evaluation/business/-addatasheet.asp">http://www.microsoft.com/windows2000/server/evaluation/business/-addatasheet.asp</a> , pages 105.   |
| <i>[Signature]</i> | AAA       | "Integrating Microsoft Metadirectory Services and Active Directory," [online], August 31, 2000 [retrieved on 2003-05-13]. Retrieved from the Internet <a href="http://www.microsoft.com/windows2000/-server/evaluation/business/adwin2k.asp">http://www.microsoft.com/windows2000/-server/evaluation/business/adwin2k.asp</a> , page 1.  |
| <i>[Signature]</i> | ABB       | "Benefits of Active Directory in a Windows 2000 Environment," [online], September 20, 2001 [retrieved on 2003-05-13]. Retrieved from the Internet <a href="http://www.microsoft.com/windows2000/-server/evaluation/business/adwin2k.asp">http://www.microsoft.com/windows2000/-server/evaluation/business/adwin2k.asp</a> , pages 1-9.   |
| <i>[Signature]</i> | ACC       | "Active Directory," [online], retrieved on 2003-05-13]. Retrieved from the Internet <a href="http://www.microsoft.com/windows2000/technologies/directory/AD/default.asp">http://www.microsoft.com/windows2000/technologies/directory/AD/default.asp</a> , pages 1-13.  |
| <i>[Signature]</i> | ADD       | Microsoft Corporation, "Introduction to Active Directory Application Mode," Microsoft Windows Server 2003, August 2002, pages 1-13.  |
| <i>[Signature]</i> | AEE       | "Active Directory Features," [online], June 15, 1999 [retrieved on 2003-05-13]. Retrieved from the Internet <a href="http://www.microsoft.com/windows2000/server/evaluation/features/adlist.asp">http://www.microsoft.com/windows2000/server/evaluation/features/adlist.asp</a> , pages 1-4.   |
| <i>[Signature]</i> | AFF       | "Windows 2000 Directory Services," [online], [retrieved on 2003-05-13]. Retrieved from the Internet <a href="http://www.microsoft.com/windows2000/technologies/directory/default.asp">http://www.microsoft.com/windows2000/technologies/directory/default.asp</a> , pages 1-2.   |
| <i>[Signature]</i> | AGG       | "Directory Integration Can Lower Total Cost of Ownership and Increase Application Functionality," [online], July 27, 1998 [retrieved on 2003-05-13]. Retrieved from the Internet <a href="http://www.microsoft.com/presspass/press/1998/Jul98/ActivDPR.asp">http://www.microsoft.com/presspass/press/1998/Jul98/ActivDPR.asp</a> , pages 1 of 4.                                       |
| <i>[Signature]</i> | AHH       | William R. Stanek, Microsoft Windows 2000 Administrator's Pocket Consultant [online]. Microsoft Corporation, 1999 [retrieved on 2003-05-08]. Retrieved from the Internet < <a href="http://www.microsoft.com/technet/prodtechnol/ad/windows2000/evaluate/05w2kada.asp?fr...">http://www.microsoft.com/technet/prodtechnol/ad/windows2000/evaluate/05w2kada.asp?fr...</a> >, pages 1-6. |
| <i>[Signature]</i> | AII       | "Enterprise Identity Management with Windows 2000 and Active Directory," [online], 1999 [retrieved on 2003-05-13]. Retrieved from the Internet < <a href="http://www.microsoft.com/technet/prodtechnol/ad/windows2000/evaluate/w2keims.asp?fra...">http://www.microsoft.com/technet/prodtechnol/ad/windows2000/evaluate/w2keims.asp?fra...</a> >, pages 1-16.                          |

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 Substitute Form PTO-1449  
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 U.S. Department of Commerce  
 Patent and Trademark Office

 Attorney's Docket No.  
 06975-113001

 Application No.  
 09/848,232

**Information Disclosure Statement  
 by Applicant**

(Use several sheets if necessary)

(37 CFR § 1.98(b))

 Applicant  
 Barry Appelman et al.

 Filing Date  
 May 4, 2001

 Group Art Unit  
 2152 2142

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial | Desig. ID | Document  |
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| <i>ajj</i>       | AJJ       | William R. Stanek, Microsoft Windows 2000 Administrator's Pocket Consultant [online]. Microsoft Corporation, 1999 [retrieved on 2003-05-08]. Retrieved from the Internet < <a href="http://www.microsoft.com/technet/prodtechnol/ad/windows2000/evaluate/05w2kadb.asp?fra...">http://www.microsoft.com/technet/prodtechnol/ad/windows2000/evaluate/05w2kadb.asp?fra...</a> >, pages 1-10. |
| <i>akk</i>       | AKK       | "Integrating Applications with Windows 2000 and Active Directory," [online], October 2000 [retrieved on 2003-05-08]. Retrieved from the Internet < <a href="http://www.microsoft.com/technet/prodtechnol/ad/windows2000/evaluate/adappstr.asp?fra...">http://www.microsoft.com/technet/prodtechnol/ad/windows2000/evaluate/adappstr.asp?fra...</a> >, pages 1-12.                         |
| <i>all</i>       | ALL       | "Part I: Active Directory Operations," Active Directory Operations Guide, Microsoft Corporation, Microsoft Windows 2000, Version 1.5, pages 1-187.  |
| <i>amm</i>       | AMM       | "Part II: Tasks and Procedures Appendices," Active Directory Operations Guide, Microsoft Corporation, Microsoft Windows 2000, Version 1.5, pages 1-131.   |
| <i>ann</i>       | ANN       | "The LP Wireless Messenger", Messenger Documentation, [online]. LP Wireless, Inc., 2001 [retrieved on 2002-11-02]. Retrieved from the Internet < <a href="http://www.lpwireless.com/messengerhelp.htm">http://www.lpwireless.com/messengerhelp.htm</a> >, pp. 1-7.  |

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| Examiner Signature <i>[Signature]</i>  | Date Considered <i>8/17/2004</i> |
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(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
06975-113001Application No.  
09/848,232**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR 1.98(b))

Applicant  
Barry Appelman et al.Filing Date  
May 4, 2001Group Art Unit  
~~2152~~ 2142**U.S. Patent Documents**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee         | Class | Subclass | Filing Date If Appropriate |
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| DA               | AA        | 6,525,747       | 02/25/2003       | Bezos            |       |          |                            |
| DA               | AB        | 2002/0015061    | 02/07/2002       | Maguire          |       |          |                            |
| DA               | AC        | 2003/0043201    | 03/06/2003       | Abdelhadi et al. |       |          |                            |
|                  | AD        |                 |                  |                  |       |          |                            |
|                  | AE        |                 |                  |                  |       |          |                            |
|                  | AF        |                 |                  |                  |       |          |                            |
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**Foreign Patent Documents or Published Foreign Patent Applications**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
|                  |           |                 |                  |                          |       |          | Yes         | No |
|                  | AK        |                 |                  |                          |       |          |             |    |
|                  | AL        |                 |                  |                          |       |          |             |    |
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|                  | AN        |                 |                  |                          |       |          |             |    |
|                  | AO        |                 |                  |                          |       |          |             |    |

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial | Desig. ID | Document  |
|------------------|-----------|---|
| DA               | AP        | Copy of International Search Report for International Application No. PCT/US03/15715, mailed August 14, 2003. |
|                  | AQ        |   |
|                  | AR        |   |
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Sheet 1 of 1

|   |  |  |                                      |
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| <b>Substitute Form PTO-1449</b><br>(Modified)<br><br><b>Information Disclosure Statement</b><br><b>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | <b>U.S. Department of Commerce</b><br><b>Patent and Trademark Office</b> | <b>Attorney's Docket No.</b><br>06975-113001 | <b>Application No.</b><br>09/848,232 |
|   | <b>Applicant</b><br>Barry Appelman et al.                                |  |                                      |
|   | <b>Filing Date</b><br>May 4, 2001  | <b>Group Art Unit</b><br>2152 <i>2142</i>    |                                      |
|   |  |  |                                      |

| U.S. Patent Documents |           |                 |                  |          |       |          |                            |
|-----------------------|-----------|-----------------|------------------|----------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|                       | AA        |                 |                  |          |       |          |                            |
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|                       | AG        |                 |                  |          |       |          |                            |
|                       | AH        |                 |                  |          |       |          |                            |
|                       | AI        |                 |                  |          |       |          |                            |
|                       | AJ        |                 |                  |          |       |          |                            |
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|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                 |                  |                          |       |          | Yes         | No |
| <i>DBT</i>  | AL        | 02/073886       | 09/19/2002       | PCT                      |       |          |             |    |
|   | AM        |                 |                  |                          |       |          |             |    |
|   | AN        |                 |                  |                          |       |          |             |    |
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| Other Documents (include Author, Title, Date, and Place of Publication) |           |  |
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| <i>DBT</i>  | AQ        | Eschenburg, Wo laufen sie denn?, October 26, 1998, pgs. 92-95.   |
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|   | AT        |  |

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